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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,678	08/01/2003	Orest W. Blaschuk	100086.401C18	4036	
500	7590 02/08/2005		EXAMINER		
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			KAM, CHIH MIN		
701 FIFTH A SUITE 6300	VE		ART UNIT	PAPER NUMBER	
	WA 98104-7092		1653		

DATE MAILED: 02/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			A - Park - N					
Office Action Commons			Application No.	Applicant(s)				
		10/632,678	BLASCHUK ET AL.					
	Office Action Summary	ſ	Examiner	Art Unit				
			Chih-Min Kam	1653				
 Period for	The MAILING DATE of this commun Reply	ication appe	ears on the cover sheet with the c	orrespondence address				
A SHORTHE MA - Extension after SI. - If the period of th	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions X (6) MONTHS from the mailing date of this comn eriod for reply specified above is less than thirty (3 eriod for reply is specified above, the maximum st to reply within the set or extended period for reply ly received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136 nunication. 0) days, a reply valutory period will will, by statute, of	6(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status								
1)⊠ R	Responsive to communication(s) file	ed on <i>07 Jai</i>	nuary 2005.					
,	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.							
3)□ S	ince this application is in condition	for allowand	ce except for formal matters, pro	secution as to the merits is				
C	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	n of Claims							
4)⊠ C	4)⊠ Claim(s) <u>1-8,34-38,53 and 54</u> is/are pending in the application. 4a) Of the above claim(s) <u>1-8,36-38,53 and 54</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠ C	⊠ Claim(s) <u>34 and 35</u> is/are rejected.							
7) 🗌 C	claim(s) is/are objected to.							
8)□ C	Claim(s) are subject to restriction and/or election requirement.							
Application	n Papers							
9)⊠ Th	ne specification is objected to by the	e Examiner.						
10)⊠ The drawing(s) filed on <u>01 August 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
R	eplacement drawing sheet(s) including	the correction	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)[] Tr	ne oath or declaration is objected to	by the Exa	miner. Note the attached Office	Action or form PTO-152.				
Priority un	der 35 U.S.C. § 119							
a) <u></u> 1.	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority	documents	have been received.	· · · · · · · · · · · · · · · · · · ·				
	Certified copies of the priority			-				
3.	 Copies of the certified copies application from the Internation 		y documents have been receive (PCT Rule 17 2(a))	d in this National Stage				
* See	e the attached detailed Office action		• • • • • • • • • • • • • • • • • • • •	d.				
Attachment(s)) of References Cited (PTO-892)		,, □ , , , , ,					
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P	TO-948)	4) Ll Interview Summary Paper No(s)/Mail Da					
3) 🔲 Informat	tion Disclosure Statement(s) (PTO-1449 or o(s)/Mail Date	PTO/SB/08)		atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, claim 34 in the response filed January 7, 2005 is acknowledged. The traversal is on the ground(s) that there would be no undue burden to search Group III since Groups II and III each relate to the use of the very same cell adhesion modulating agents of claim 8 for modulating the activity of the very same cell type, vascular smooth muscle cells. The response has been considered and found persuasive, thus claims 34 and 35 are examined. Claims 1-8, 36-38 and 53-54 are non-elected inventions and are withdrawn from consideration.

Informalities

The disclosure is objected to because of the following informalities:

2. Figs. 12A-D are objected to because of the dark background, the images of these drawings are not readable; and in the drawings of Figs. 30A and 30 B, it appears there is only Fig. 30B but not Fig. 30A. Appropriate correction is required.

Claim Objections

3. Claims 34 and 35 are objected to because they are dependent from non-elected claims, claim 1 and 8. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 34 and 35 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 34 and 35 are directed to a method of modulating vascular smooth muscle cell migration or apoptosis by contacting a vascular smooth muscle cell with a cell adhesion modulating agent of formula Z_1 -Cyclo(X-His-Ala-Val-Y)- Z_2 , where Z_1 and Z_2 are amino acid residues and each range from 1 to 10 residues, X and Y are each amino acid residue and a disulfide bond is formed between X and Y. While the specification indicates that the invention is directed to a method for modulating the behavior such as proliferation, migration and/or survival of vascular smooth muscle cell (VSMC) comprising contacting a cadherin expressing VSMC with a cell adhesion modulating agent of formula Z₁-Cyclo(X-His-Ala-Val-Y)-Z₂ (page 13, lines 19-24; page 101, lines 18-25), the specification does not disclose a method of modulating (increasing or decreasing) vascular smooth muscle cell migration or apoptosis by contacting the cell with a cell adhesion modulating agent. The specification only demonstrates inhibition of VSMC migration (Example 23; Figs. 45A and 45B) or increasing VSMC apoptosis during migration (Example 24; Figs. 46 A and 46B) using the cadherin-modulating agent. Ac-cyclo(CHAVC)-NH₂. There is no example indicating a cadherin-modulating agent of formula Z₁-Cyclo(X-His-Ala-Val-Y)-Z₂ can modulate (i.e., enhance) VSMC migration and (i.e., decrease) VSMC apoptosis. The lack of description in the method of

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modulating VSMC migration and/or apoptosis using the cell adhesion modulating agent of formula Z_1 -Cyclo(X-His-Ala-Val-Y)- Z_2 as encompassed by the claims, applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise terms that a skilled artisan would not recognize applicants were in possession of the claimed invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 34 and 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 34 and 35 are indefinite because the claim lacks an essential step in the method of modulating vascular smooth muscle cell migration or apoptosis. The missing step is an effective amount of the cell adhesion modulating agent used.

Conclusion

6. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Obet

Chih-Min Kam, Ph. D.

Patent Examiner

CMK

February 2, 2005